IL-135-08

MATERIAL SAFETY DATA SHEET

IDENTIFICATION

REGISTRY NO.—CAS 64-19-7 DUP NK

Name: Acetic Acid
Synonyms: Ethanoic Acid; Ethylic Acid; Methane Carboxylic Acid; Glacial Acetic Acid; Vinegar Acid
CAS Name: Acetic Acid
NIOSH Reg. No. AF1225000
I.D. Nos./Codes: Wiswesser Code QV1
Chemical Family: Carboxylic Acid
Manufacturer/Distributor: Ashland Chemical Co.
Address: P. O. Box 2219, Columbus OH 43216

Information Phone (614) 276-6143
Terp Phone
Emergency Phone (614) 276-6143
Chemtrec Phone (800) 424-9300

HAZARDOUS COMPONENTS

Material(s) Acetic Acid — Approximate % 99.8

PHYSICAL DATA

Boiling Point, 760 mm Hg 245°F, 118.5°C
Melting Point 62°F, 16.6°C
Specific Gravity 1.049 (20°C)
Vapor Pressure mm Hg at 25°C 15, at 37.7°C 31
Vapor Density (Air=1) 2.07
Solubility in H_2O % by Wt. 100
% Volatiles by Vol. 100
Evaporation Rate (Butyl Acetate = 1) ≥1
pH Information water 2
Octanol/Water Partition Coefficient $Log_{10}P=0.31$
Form Liquid Appearance Clear Color Colorless
Odor Pungent; Vinegary Threshold TOC: 2.5 mg/cum

FIRE AND EXPLOSION DATA

Flash Point 109°F, 42.8°C Method TCC
Autoignition Temperature 869°F, 465°C
Flammable Limits in Air, % by Vol. Lower 5.4 Upper 16.0
Fire and Explosion Hazards Combustible - can generate flammable hydrogen gas upon contact with metals.
Extinguishing Media Water; chemical form; dry chemical; CO_2; alcohol foam.
Special Fire Fighting Instructions Use water spray; cool tank/container.

HAZARDOUS REACTIVITY

Instability Stable
Incompatibility Incompatible with chromic acid, nitric acid & other oxidizing agents.
Decomposition
Polymerization Will not occur.

HEALTH HAZARD INFORMATION

Exposure Limits OSHA: 8 Hr Time Weighted Avg. (TWA) 10 ppm 25 mg/m^3; ACGIH: Threshold Limit Value (TLV-TWA) 10 ppm 25 mg/m^3, (STEL-TWA) 15 ppm 37 mg/m^3; Company - TWA: 10 ppm 25 mg/m^3.

Routes of Exposure and Effects

Inhalation LC50-1 Hr-(Rat-calc.) (4Hr=1,600) 64,000 mg/m^3; LC50-1 Hr-(Mouse) 5,620 ppm
Skin LD50 (Rabbit) 1,060 mg/kg; corrosive to skin.
Eye Corrosive
Ingestion LD50 (Oral, Rat) 3,310 mg/kg; LD50 (Oral, Mouse) 4,960 mg/kg.

—FOR DU PONT USE ONLY—

IDENTIFICATION REGISTRY NO.—CAS 000064197/- DUP NK

HEALTH HAZARD INFORMATION (cont.)

Effects of Overexposure

Acute: Marked discomfort, irritation and burns. (2)

Chronic: Liver damage, teratogenic effects in animals, respiratory irritation and teeth erosion, (2) Acetamide is positive in carcinogenic activity. (1)

First Aid

Inhalation: Remove to fresh air. If breathing difficult, administer oxygen. If breathing is stopped, start artificial respiration.

Skin: Immediately wash with soap and water. Wash contaminated clothing before reuse. If irritation persists, contact Medical.

Eye: Immediately flush for 15 minutes with cold running water. Transport to Medical.

Ingestion: Drink 2 glasses of water. Stick finger down throat to induce vomiting. Transport to Medical.

PROTECTION INFORMATION

Ventilation: Use good ventilation to reduce fumes below the TLV.

Personal Protective Equipment

Eye: Breathing air full face respirator

Gloves: Butyl rubber

Respirator: Approved breathing air respirator

Other: Full butyl rubber suit.

DISPOSAL PROCEDURES

Aquatic Toxicity: B. TLm96:100-10 ppm(1), C. TLm24:>5 mg/l(4)

Spill, Leak or Release: Stop spill. Blockade and evacuate area. Extinguish ignition sources. Use absorbent to sweep into closed container.

Waste Disposal: Treat as hazardous material. Use EPA-approved disposer.

SHIPPING PRECAUTIONS

Transportation: DOT(49CFR172.101)

Shipping Containers: Tank cars or trucks.

Storage Conditions: Stored in bulk storage tank in Kapton® Tank Farm.

DOT NAME/CLASSIFICATION

Collected Solvent (DMAC type)/Combustibl Liquid

REFERENCES AND ADDITIONAL INFORMATION

(1) "Registry of Toxic Effects of Chemical Substances", 1978 Ed., Dept. of HEW.

(2) F.A.Patty, "Industrial Hygiene and Toxicology", Vol.II, 2nd Ed., Rev.1963, p.2181-8

(3) W.M.Grant, "Toxicology of the Eye", 2nd Ed., 1974, p.80-82 and 400.

(4) California State Waste Resources Control Board, "Water Treating Criteria", 2nd ED., 1963, p.242-3.

Generated in Kapton® process.

Department: Polymer Products Division: Manufacturing Site Circleville

Prepared By: James M.Quinn James M. Quinn Date 1/24/80

Authorized By: [signature] Date 2/4/80

IS-134

MATERIAL SAFETY DATA SHEET

IDENTIFICATION

REGISTRY NO.—CAS 000127195/-/ 000064197/- DUP NK

Name Collected Solvent (DMAC type)

Synonyms None

CAS Name N,N'-Dimethylacetamide/Water/Acetic Acid/β-Picoline

I.D. Nos./Codes AB77000/-/AF12250/-(NIOSH)

Chemical Family Amide/Acid/Heterocyclic

Information Phone

Terp Phone (800) 424-9300

Emergency Phone

Manufacturer/Distributor Generated in Kapton® process.

Address

HAZARDOUS COMPONENTS

Material(s)		Approximate %	
A. DMAC	F. Methylene Diacetamide	60	<0.1
B. Acetic Acid		10	
C. β-Picoline		5	
D. Guanidine		<0.1	
E. Acetamide		<0.1	

PHYSICAL DATA

Boiling Point, 760 mm Hg	NK	Melting Point	NK
Specific Gravity	NK	Vapor Pressure	NK
Vapor Density	NK	Solubility in H_2O	Very soluble
% Volatiles by Vol.	100	Evaporation Rate (Butyl Acetate = 1)	NK
pH Information	NK	Octanol/Water Partition Coefficient	NK

Form Liquid Appearance Clear Color Colorless

Odor Unpleasant

FIRE AND EXPLOSION DATA

Flash Point 94°C Method NK Autoignition Temperature NK

Flammable Limits in Air, % by Vol. Lower NK Upper NK

Fire and Explosion Hazards Combustible liquid

Extinguishing Media Foam, carbon dioxide, dry chemical, water spray fog nozzle.

Special Fire Fighting Instructions Do not use water stream.

HAZARDOUS REACTIVITY

Instability None

Incompatibility Strong oxidizers

Decomposition None

Polymerization None

HEALTH HAZARD INFORMATION

Exposure Limits (Calculated)

TLV-TWA: 7.25 ppm, TLV-STEL: 10.5 ppm

USOS-TWA: 7.25 ppm, Company-TWA: 7.25 ppm

Routes of Exposure and Effects

Inhalation A. Human TCLo: 20 ppm systemic effects, B. Human TDLo: 816 ppm 3M, C. Rat LCL

Skin A. Rabbit ALD: 5000 mg/kg(1), B. burns(2), C. Guinea Pig LD50: 8700 ppm /2H (1)

Eye A. Conjunctivitis(2), B. Very irritating 1500 mg/kg(1)

Ingestion A. Rat LD50: (3), C. Irritation(2)

5090 mg/kg, B. Rat LD50: 3310 mg/kg, C. Rat LD50: 600 mg/kg(1)

—FOR DU PONT USE ONLY—

HEALTH HAZARD INFORMATION (cont.)

Effects of Overexposure

Acute Nausea, vomiting, headache, insomnia, nervousness, fatigue, gastrointestinal disturbances, low back pain and increased urinary frequency.

Chronic NK

First Aid

Inhalation Remove to fresh air. Administer oxygen. If breathing stopped, start artificial respiration. Transport to Medical.

Skin Immediately wash with soap and water. If irritation persists, contact Medical.

Eye Immediately flush for 15 minutes with cold running water. Transport to Medical

Ingestion Drink 2 glasses of water. Transport to Medical.

PROTECTION INFORMATION

Ventilation Use good ventilation (hood) to keep fumes below the TLV.

Personal Protective Equipment

Eye Side shield safety glasses
Gloves Butyl rubber
Respirator Not normally needed
Other None

DISPOSAL PROCEDURES

Aquatic Toxicity TLm24:>5 mg/l (3)

Spill, Leak or Release Stop spill. Ventilate area and extinguish ignition sources. Soak up with rags, paper towels or absorbent and place in sealed container.

Waste Disposal Treat as hazardous waste and use EPA-approved disposer.

SHIPPING PRECAUTIONS

Transportation DOT(49CFR172.101)

DOT NAME/CLASSIFICATION

β-Picoline/Flammable Liquid, NOS

Shipping Containers Tank trucks

Storage Conditions Bulk storage in Kapton® tank farm. Store in cool ventilated area.

REFERENCES AND ADDITIONAL INFORMATION

(1) F.A.Patty, "Industrial Hygiene and Toxicology", Vol.II, 2nd Ed., 1963, p.2181-8.
(2) N.I.Sax, "Dangerous Properties of Industrial Materials", 5th Ed., 1979, p.915.
(3) California State Water Resources Control Board, "Water Quality Criteria", 2nd Ed., 1963, p.242-3/

Used in Kapton® - SP Resin Area.

Department: Polymer Products Division: Manufacturing Site Circleville

Prepared By: James M. Quinn James M. Quinn Date

Authorized By: W.S. Parker Date 3/4/85

DU PONT

MATERIAL SAFETY DATA SHEET

IDENTIFICATION

REGISTRY NO.—CAS 108-99-6 DUP NK

Name β-Picoline
Synonyms None

CAS Name 3-Methylpyridine

I.D. Nos./Codes NK
Chemical Family Substituted pyridine
Manufacturer/Distributor Reilly Tar & Chemical
Address 1510 Market Square Center
151 North Delaware Street
Indianapolis, Indiana 46204

Information Phone (317) 247-8141
Terp Phone (800) 424-9300
Emergency Phone (317) 247-8141

HAZARDOUS COMPONENTS

Material(s)	Approximate %
β-Picoline	100%

PHYSICAL DATA

Boiling Point, 760 mm Hg 144.1°C
Specific Gravity 0.9613 @ 15°C
Vapor Density 3.21
% Volatiles by Vol. 100
pH Information Basic
Form Liquid Appearance Clear
Odor Disagreeable

Melting Point 18.2°C
Vapor Pressure NK
Solubility in H_2O Completely
Evaporation Rate (Butyl Acetate = 1) <1
Octanol/Water Partition Coefficient NK
Color Colorless

FIRE AND EXPLOSION DATA

Flash Point 20°C Method NK
Autoignition Temperature NK
Flammable Limits in Air, % by Vol. Lower 1.1 Upper NK
Fire and Explosion Hazards Very flammable liquid

Extinguishing Media Foam, carbon dioxide, dry chemical, water spray.
Special Fire Fighting Instructions Do not use water stream

HAZARDOUS REACTIVITY

Instability None
Incompatibility With acids or oxidizers
Decomposition Emits nitrogen oxide fumes.
Polymerization None

HEALTH HAZARD INFORMATION

Exposure Limits Company TWA: 5 ppm

Routes of Exposure and Effects
Inhalation Rat LCLo: 8700 ppm/2H (1)
Skin Guinea Pig LD50: 1500 mg/kg (1)
Eye Irritation (1,2)
Ingestion Rat LD50: 600 mg/kg (1)

CustomOrganics Inc.
1445 WEST 42ND STREET • CHICAGO, ILLINOIS 60609 • 312/247-2828

December 23, 1982
IEPA ID # 1980-39-OP
PART VI - 4

Procedure for Analysis of DMAC Crude

Reagents

Dimethylacetamide	100% pure
Acetonitrile	(AN)
N-Methyl Pyrrolidone	(NMP)

STANDARD SOLUTION: Weigh out 6.50 gms, 9.0 gms. and 12.0 gms. of pure DMAC in each of three vials. Add 10 gms. of NMP to each.
Label as DMAC/I.S. = .65
DMAC/I.S. = .90
DMAC/I.S. = 1.20

Apparatus

Vials, Volumetric Flask 100 ml, analytical balance
5 ml. syringe
Gas chromatograph equipped with a flame ionizaton detector and column of 1/4" x 6' stainless steel. 10% Vermaid on chromasorb G-AW 80/100.

PROCEDURE

Run G. C.'s on the standard solutions. The suggested conditions are:

Helium inlet pressure	20 psi
Injector temperature	250°C.
Detector temperature	350°C.
Column temperature	180°C.

Weigh out 15 gms. of DMAC crude and add 10 gms. of NMP crude. Run G. C. of this mixture at exactly the same conditions as above.
Depending on which Gas Chromatograph is used, dilution may be necessary. With Fisher G. C., dilute all standard solution samples and crude plus internal standard solution mixtures with 99 parts by volume of Acetonitrile (AN). This is to protect the detector from overloading.

December 23, 1982
IEPA ID# 1980-39-OP
Part VI - 1

CustomOrganics Inc.
1445 WEST 42ND STREET • CHICAGO, ILLINOIS 60609 • 312/247-2828

December 23, 1982
IEPA ID # 1980 -39-OP
PART IV

PARCEL 1:

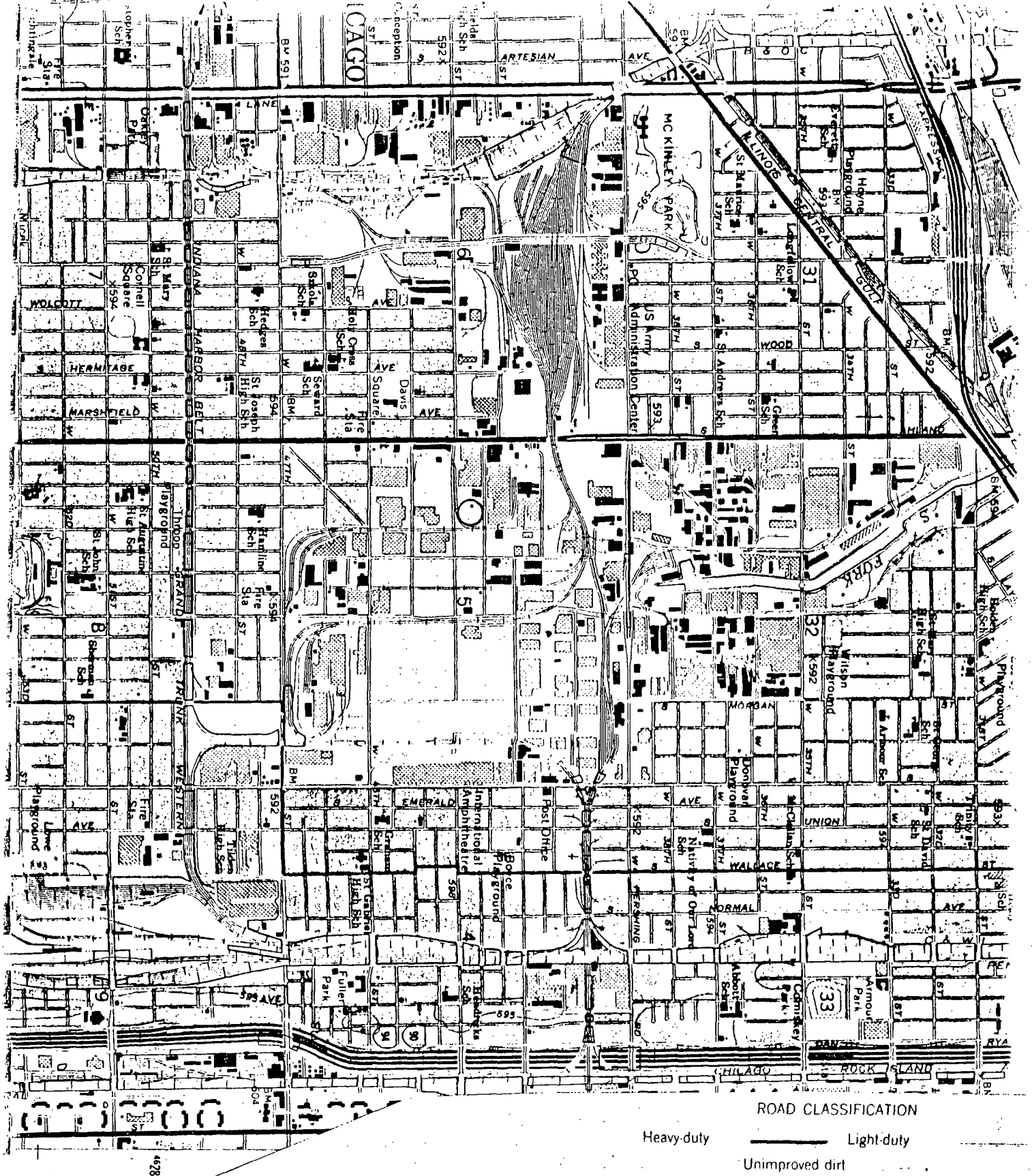
THAT PART OF LOT 1 IN BLOCK 3, LYING EAST OF A LINE WHICH IS 230.00 FEED (MEASURED PERPENDICULARLY) EASTERLY FROM AND PARALLEL WITH A LINE EXTENDING NORTHWARD FROM A POINT ON THE SOUTH LINE OF LOT 3 IN SAID BLOCK 3 WHICH IS 1.90 FEET EAST FROM THE SOUTH WEST CORNER OF SAID LOT 3 TO A POINT ON THE NORTH LINE OF SAID LOT 3 WHICH IS 3.10 FEET EAST FROM THE NORTH WEST CORNER OF SAID LOT 3, IN PACKER'S SECOND ADDITION TO CHICAGO, BEING A SUBDIVISION OF THE WEST 1025 FEET OF THE SOUTH 1/2 OF THE NORTH WEST 1/4 OF SECTION 5, TOWNSHIP 38 NORTH, RANGE 14 EAST OF THE THIRD PRINCIPAL MERIDIAN, IN COOK COUNTY, ILLINOIS

PARCEL 2:

LOTS 1, 2, 3, 4 AND 5 IN BLOCK 6 IN PACKER'S THIRD ADDITION, A SUBDIVISION IN THE SOUTH 1/2 OF THE NORTH WEST 1/4 OF SECTION 5, TOWNSHIP 38 NORTH, RANGE 14 EAST OF THE THIRD PRINCIPAL MERIDIAN, IN COOK COUNTY, ILLINOIS

PARCEL 3:

THE SOUTH 1/2 OF THAT PART OF THE EAST AND WEST 50 FOOT PRIVATE STREET NUMBER 3, AS APPEARS ON THE PLATS OF PACKER'S THIRD ADDITION, AND PACKER'S SECOND ADDITION TO CHICAGO, INSECTION 5, TOWNSHIP 38 NORTH, RANGE 14 EAST OF THE THIRD PRINCIPAL MERIDAN, LYING NORTH OF AND ADJOINING SAID LOTS 1. 2. 3. 4 AND 5 IN BLOCK 6. AND SAID PART OF LOT 1 IN BLOCK 3 AFORESAID, AND LYING WEST OF AND ADJOINING THE NORTHWARD EXTENSION OF THE EAST LINE OF SAID LOT 5 IN BLOCK 6, AND LYING EAST OF AND ADJOINING THE NORTHWARD EXTENSION OF SAID LINE WHICH IS 230.00 FEET, (MEASURED PERPENDICULARLY) EASTERLY FROM AND PARALLEL WITH A LINE EXTENDING NORTHWARD FROM A POINT ON THE SOUTH LINE OF LOT 3 IN SAID BLOCK 3 WHICH IS 1.90 FEET EAST FROM THE SOUTH WEST CORNER OF SAID LOT 3, TO A POINT ON THE NORTH LINE OF SAID LOT 3 WHICH IS 3.10 FEET EAST FROM THE NORTH WEST CORNER OF SAID LOT 3, IN COOK COUNTY, ILLINOIS



Revisions shown in purple compiled from aerial photographs taken 1972. This information not field checked

Purple tint indicates extension of urban areas

ENGLEWOOD, ILL.

N4145—W8737.5/7.5

1963
PHOTOREVISED 1972
AMS 3467 I SW—SERIES V863

IV. Location Information

Attach a copy of the United States Geologic Survey (U.S.G.S.) quadrangle map (7.5 minute quadrangle, if published) and a topographic map of the area which contains the site. Also provide a legal description of the site.

Quadrangle map provided Englewood, Ill. (Name) 1972 (Date)

See Attachment

3.12 Acres XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
Section 5, Township 38 North, Range 14 East, 3rd P.M.
Local Description: XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
Present Zoning Classification and Restrictions (if any) M3-5, None

V. Facility Background

( ) This is an existing operation begun ______ (mo.) ______ (yr.).
( ) This is a proposed operation.
(X) This is a proposed extension to an existing operation:
Illinois EPA Permit No. 1980-39-OP.
( ) Other Existing Environmental Facility Permits:

Consult instructions for the contents of Sections V, VI, VII, and VIII.

VI. Facility Information

The following documents must accompany the application (please indicate which documents are being submitted with this application by putting an "X" in the appropriate space).

X 1. A plan sheet of the site.
X 2. A process flow diagram and process instrumentation diagram of storage/treatment operation.
X 3. A narrative description of the site's operation.
X 4. A description of analysis methods used to screen and test waste types.
X 5. A description of methods used to treat, transfer or dispose of waste generated from the process/operation of the site.
X 6. A detailed contingency plan or procedure.
X 7. A description of inspection procedures.
X 8. A closure plan.
X 9. Land use information.

APPLICATION FOR PERMIT

I. Site Identification

Name of Facility: Custom Organics Inc.
Address of Facility: 1445 West 42nd Street, Chicago, Ill. 60609
Type of Facility: Solvent and Chemical Reclamation

II.A. Applicant Identification

Operator		Owner	
Name	Custom Organics, Inc.	Name	Custom Organics, Inc
Address	1445 West 42nd Street Chicago, Ill. 60609	Address	1445 West 42nd Street Chicago, Ill. 60609
Phone	(312) 247-2828	Phone	(312) 247-2828

B. Site Ownership

X Presently Owned by Applicant

__ To be Leased by Applicant for __ Years
__ Years of Lease Remaining:
__ Beginning date of Lease _____
__ Expiration date of Lease _____

Operated by: Illinois Corporation X Partnership ___ Government ___
Individual ___ Other ___

III. Certification

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those persons immediately responsible for obtaining the information contained in the application, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Applicant

Name: David A. Durakovich — Date: 12-23-82
Title: Sales Manager
Signature: David A Durakovich — Date: 12-23-82
Attest: Daniel ICPT — Date: 12/29-82

Owner/Operator

Name: Gilbert Gavlin — Date: 12-23-82
Title: President
Signature: Gilbert Gavlin — Date: 12/23/82
Attest: Daniel ICPT — Date: 12-27-82

Engineer

Name: William M. Langdon — Date: 12-23-82
Title: Chief Engineer
Signature: William M Langdon — Date: 12/23/82
Attest: Daniel ICPT — Date: 12-27-82

Engineer Seal

Signatures:

Site Operator: Custom Organics, Inc.

Operator Address: 1445 West 42nd Street
Chicago, Illinois 60609

Site Owner: Custom Organics, Inc

Owner Address: 1445 West 42nd Street
Chicago, Illinois 60609

Engineer: William M. Langdon

P.E. Reg. No.: 62-945 Illinois

Address: 1445 West 42nd Street
Chicago, Illinois 60609

Phone No.: 312-247-2828

I hereby authorize David A. Durakovich to execute all permit application documents to the Land Permit Section, Division of Land/Noise Pollution Control on my behalf as site owner.

Signature Custom Organics Inc by Gilbert Gavlin pres., Date Dec. 20, 1982

I hereby authorize David A. Durakovich to execute all permit application documents to the Land Permit Section, Division of Land/Noise Pollution Control on my behalf as site onerator.

Signature Custom Organics Inc by Gilbert Gavlin pres., Date Dec. 20, 1982

APPLICATION FOR PERMIT

In order to clarify submittals made to the Land Permit Section, this document shall be utilized as page one of applications for Operating Permit and Supplemental Permit for site modification. This form is not to be used with applications for Development Permit and for Supplemental Permit to accept special waste (green forms).

12-23-82
date

Illinois Environmental Protection Agency
Land Permit Section
Division of Land/Noise Pollution Control
2200 Churchill Road
Springfield, Illinois 62706

Gentlemen:

This is an application for

RECEIVED
DEC 23 1982
E.P.A. — D.L.P.C.
STATE OF ILLINOIS

- ☐ Operating Permit
- ☐ Supplemental Permit to modify development
- ☒ Supplemental Permit to modify operation

for

Site Name: Custom Organics, Inc.

Site Address: 1445 West 42nd Street

Chicago, Illinois 60609

County: Cook

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter III 1/2, Section 1039. Disclosure of this information is required under that Section. Failure to do so may prevent this form from being processed and could result in your application being denied. This form has been approved by the Forms Management Center.

IL 532-0344
LPC 48 3/80

(OVER)